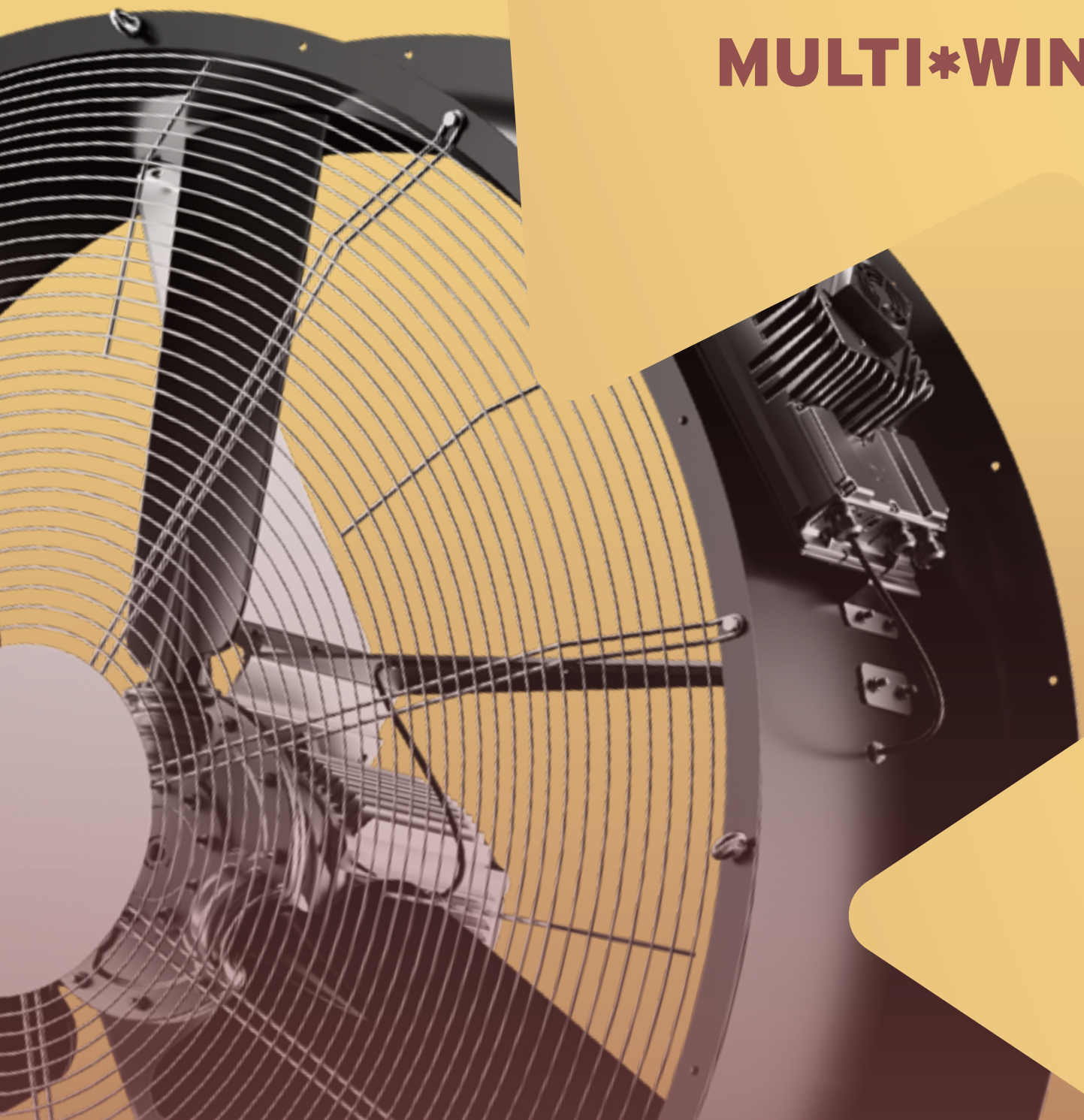
MULTI*WING



GET MORE
FOR LESS

# L-SERIES
AXIAL EC FANS

# LARGE EC FANS
GO LARGE - GET MORE AIRFLOW FOR LESS

# L-SERIES

## Highlights

**The large and aerodynamically optimized L-series axial fans feature advanced heavy-duty casing design, including bellmouth inlets and short diffusers, ensuring superior flow and performance.**



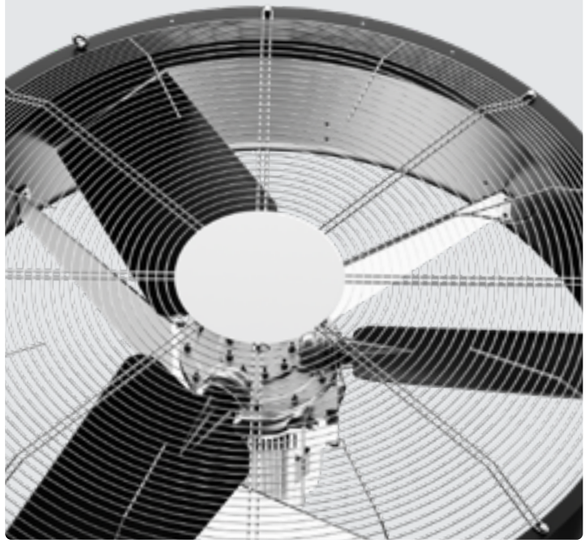


## L-SERIES
OVERVIEW

The excellent choice for applications such as cooling towers and large dry coolers

### Protected electronics

The electronic components are shielded from the airflow, thus increasing electronics lifetime. This also allows for more powerful motors and increased performance.



### ESPR ready

The L-series is fully equipped to meet the stringent performance, repairability, and fan performance requirements of the EU's Ecodesign for Sustainable Products Regulation (ESPR). At Multi-Wing, we are ready to assist you in complying with these standards efficiently and confidently.

### Built for the elements

The L-series is ideal for the Multi-Wing internal rotor motor, offering superior heat dissipation, improved durability, lower motor temperatures, and longer bearing life.
It delivers higher power output, perfect for high-power applications up to 200Nm/30kW.

### Modular design

Suitable for harsh environments, the fan is easily serviceable.  Upgradable components enhance corrosion protection, while individual part replacements improve serviceability and eco-friendliness.

- Energy efficiency
- Durability
- Large fan diameter

## Cooling tower

Heavily exposed to corrosive and wet environments, fans in cooling towers need to be very durable. Cooling towers come in larger but variable sizes so they can be fit for purpose, which also presents variability in the optimal size of the fan.

Multi-Wing can equip your cooling towers with large variable speed fans, tailored for corrosive operating conditions. Our customized designs result in significant energy savings, eliminating the need to invest in several smaller fans.

With Multi-Wing's long aerodynamics history, we customize axial fans up to 1,800 mm in specific shapes and formats, tailored to your application.



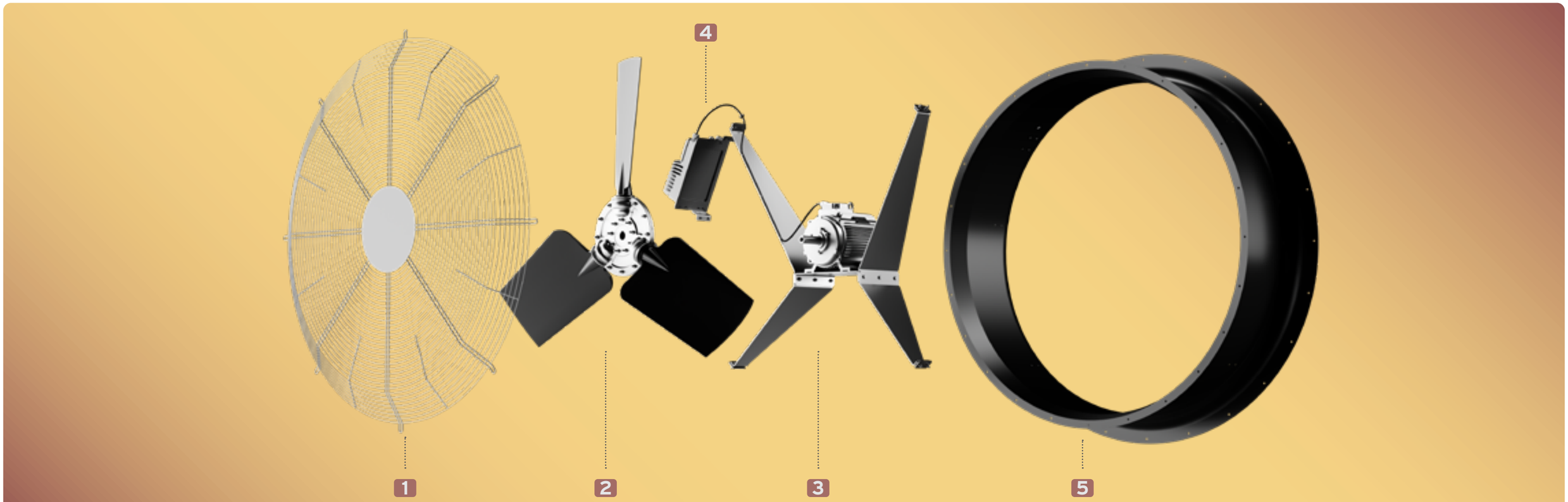


Ready for cooling towers and similar demanding applications

| | |
|---|---|
| Power supply | 3ph, 380-480 V ~ 10% 50Hz/60Hz |
| IP protection grade | IP55 |
| Insulation class | F/B |
| Motor technology | PM synchronous motor |
| Drive | External PM drive - mounted on duct, outside airflow |
| Digital communication | MODBUS RTU, RS-485 |
| Analog communication | 0-10 VDC, 100% @ 9.5 VDC +/-2% |
| Airflow temp. range* | -30°C to +70°C |
| Ambient temp. range** | -40°C to +50°C |
| Conformity | CE, UL listed components used, ErP 2015 compliant, ESPR ready |
| Motor | Housing: cast iron – DE, End shield: cast iron - C3M |
| Casing | Pre-galvanized steel, powder coating RAL7021, C3H |
| Motor supports | Hot-dip galvanized steel and powder coated RAL7021, C4H |
| Impeller | PAG blades and corr. resistant Al alloy hub, A2 stainless steel bolting |
| Protection grid | S235JR, ZnNi ,powder coated RAL 7021 (Compliant to ISO 13857), C4H |

* Linked to motor's limits
** Linked to drive's limits

# L-SERIES
CHARACTERISTICS




## 1 - Fan grid

Aerodynamically optimized design for minimal energy waste.
C4-level corrosion-resistant paint grade as standard.

## 2 - Impeller

Utilizing the width of the modular impeller range to achieve the maximum performance.

Airfoil shape,
9W2 and 10G impellers

Sickle blade,
1G impeller

## 3 - Internal rotor motor

Robust direct driven powerful PM internal rotor motor mounted on the suction side for maximum performance and durability.

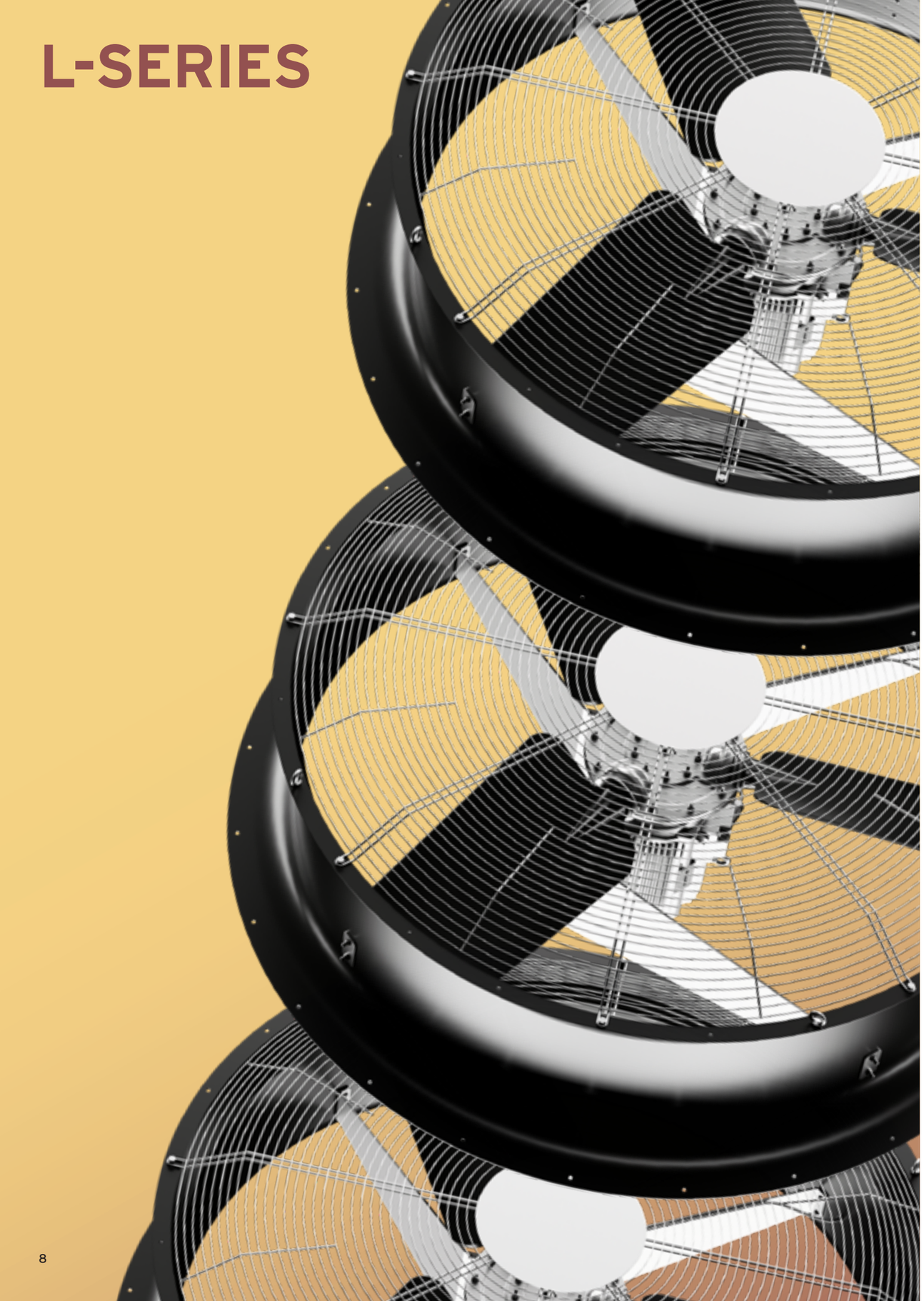
## 4- External drive

Out-of-airflow, ready to provide the additional power needed for environments like cooling towers

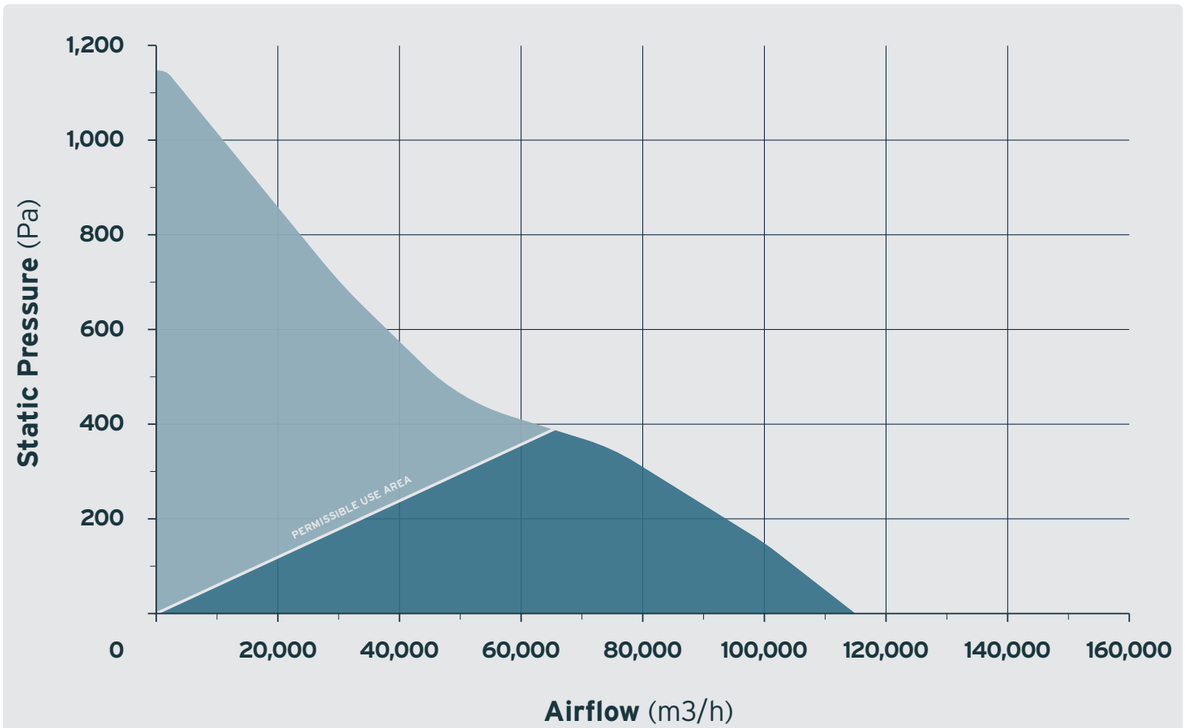
## 5 - Housing

Specially designed bellmouth heavy duty inlet and short diffuser providing superior flow and performance.
Available both as square or round plate.

# L-SERIES



# 1,500 mm
KL.1500X

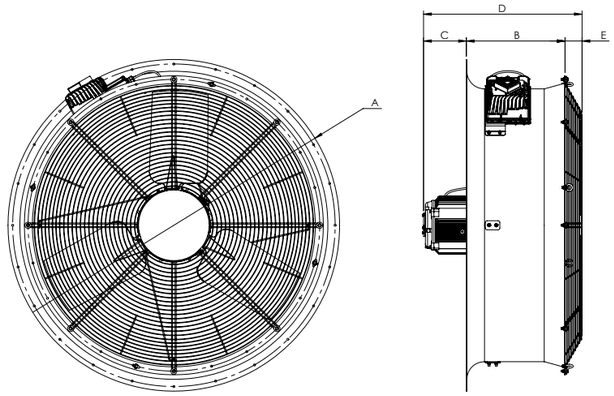



**Conditions**

Measuring conditions: Performance data is measured after ISO 5801, installation category A, as a complete axial fan without fan guard. Data refer to air density 11.2 kg/m³ (20° sea level). Sound data is measured at suction-side. The data apply only under the specified measuring conditions and may change due to installation conditions. In case of deviations from the standard design, the characteristic values must be checked in the installed condition. Upon request sound data according to ISO 3745 can be measured.

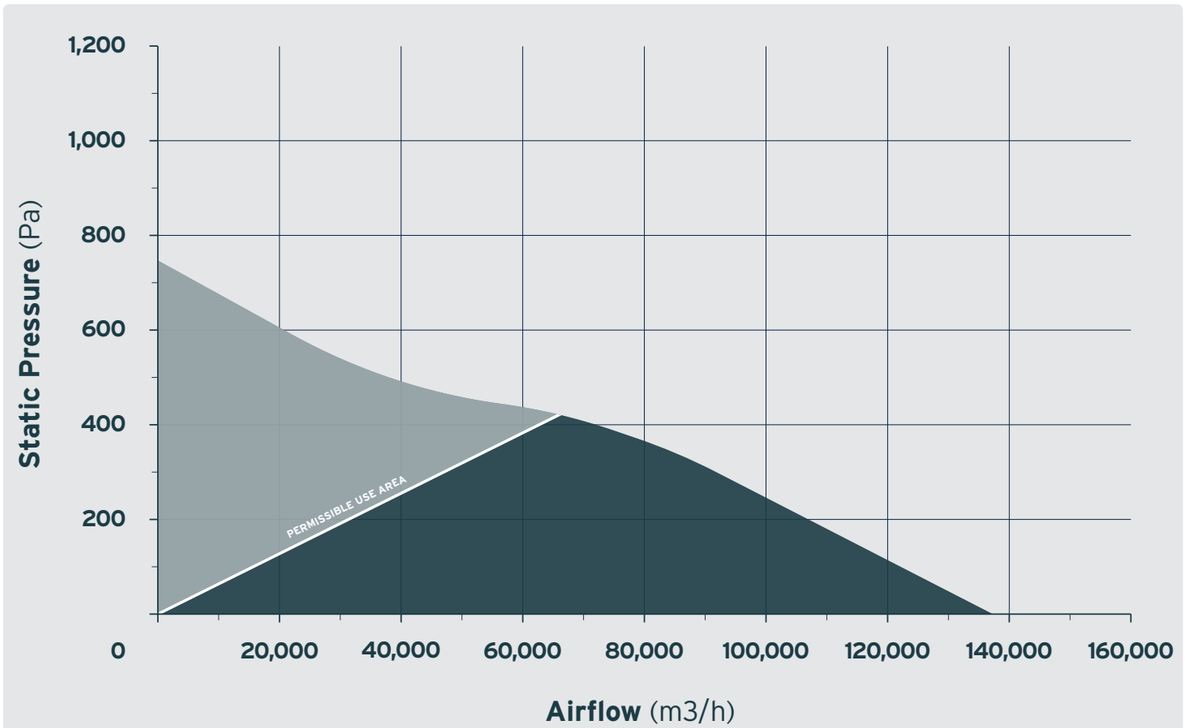
## Dimensions

| | A [mm] | B [mm] | C [mm] | D [mm] | E [mm] |
|---|---|---|---|---|---|
| 1 | 1830 | 545 | 195 | 834 | 94 |




| | PART NUMBER | SPECIFICATION CODE | MAX INPUT POWER (kW) | MAX. INPUT CURRENT (A) | MAX. BACK PRESSURE (PA) | MAX. SPEED (RPM) |
|---|---|---|---|---|---|---|
| 1 | FP150000002 | JUW 150 - 36 - 8B - 56 - L - Q Z X 3 X 5 - P - M R | 16.34 | 24.56 | 340 | 850 |

# 1,600 mm
KL.1600X

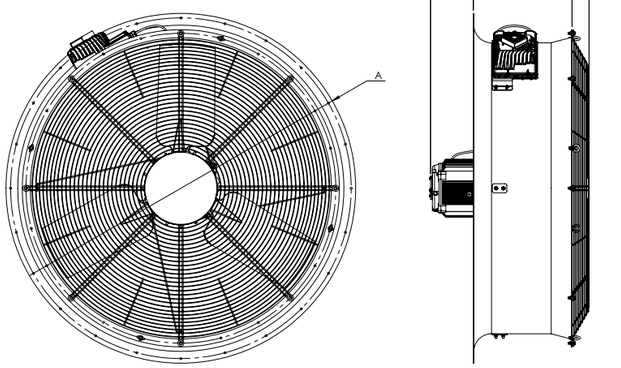



**Conditions**

Measuring conditions: Performance data is measured after ISO 5801, installation category A, as a complete axial fan without fan guard. Data refer to air density 11.2 kg/m³ (20° sea level). Sound data is measured at suction-side. The data apply only under the specified measuring conditions and may change due to installation conditions. In case of deviations from the standard design, the characteristic values must be checked in the installed condition. Upon request sound data according to ISO 3745 can be measured.

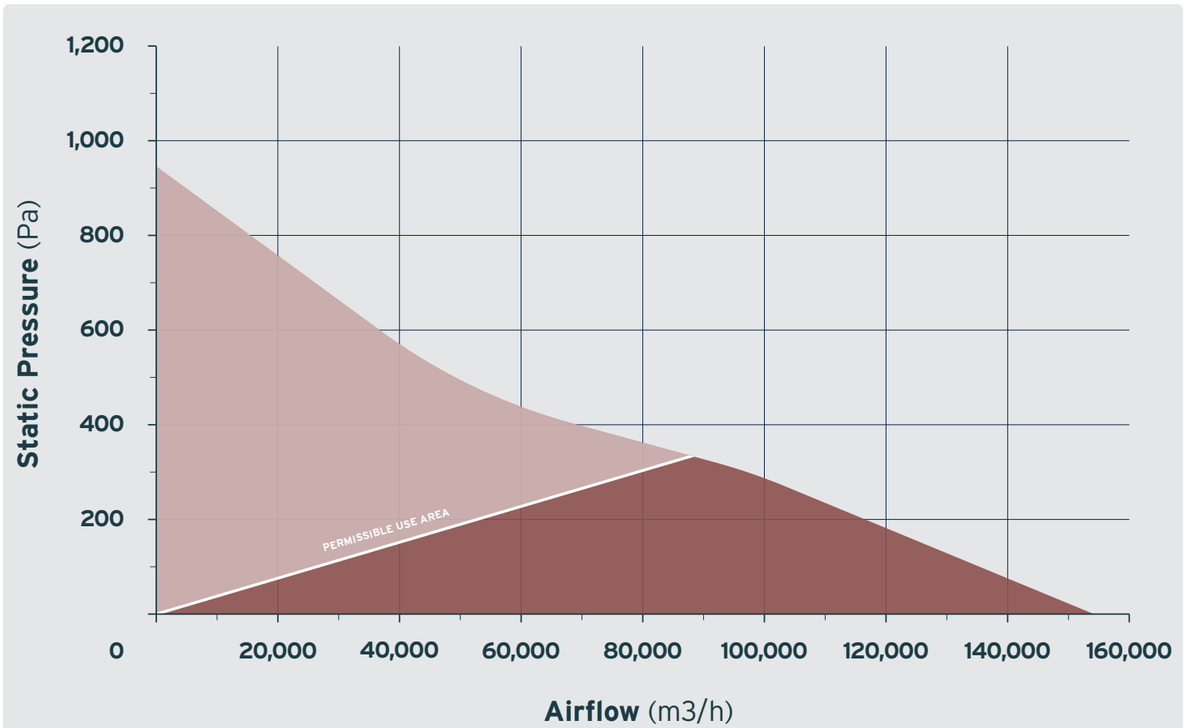
## Dimensions

| | A [mm] | B [mm] | C [mm] | D [mm] | E [mm] |
|---|---|---|---|---|---|
| 1 | 1930 | 545 | 195 | 834 | 94 |




| | PART NUMBER | SPECIFICATION CODE | MAX INPUT POWER (kW) | MAX. INPUT CURRENT (A) | MAX. BACK PRESSURE (PA) | MAX. SPEED (RPM) |
|---|---|---|---|---|---|---|
| 1 | FP160000005 | JUW 160 - 39 - 8B - 53 - L - Q Z X 3 X 5 - P - M R | 16.45 | 24.73 | 330 | 800 |

# 1,800 mm
KL.1800X

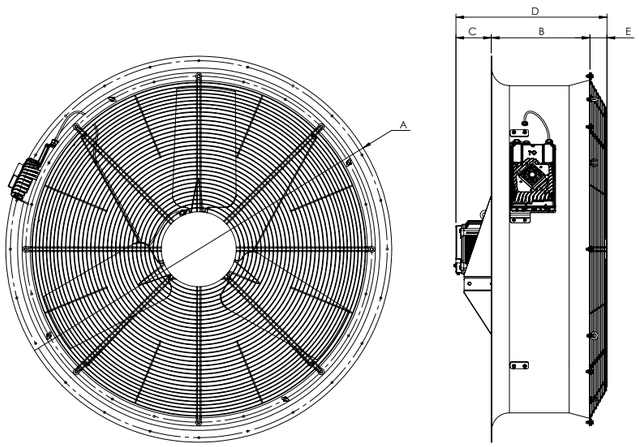



**Conditions**

Measuring conditions: Performance data is measured after ISO 5801, installation category A, as a complete axial fan without fan guard. Data refer to air density 1,2kg/m³ (20° sea level). Sound data is measured at suction-side.
The data apply only under the specified measuring conditions and may change due to installation conditions.
In case of deviations from the standard design, the characteristic values must be checked in the installed condition.
Upon request sound data according to ISO 3745 can be measured.

## Dimensions

| | A [mm] | B [mm] | C [mm] | D [mm] | E [mm] |
|---|---|---|---|---|---|
| 1 | 2130 | 545 | 195 | 834 | 94 |




| | PART NUMBER | SPECIFICATION CODE | MAX INPUT POWER (kW) | MAX. INPUT CURRENT (A) | MAX. BACK PRESSURE (PA) | MAX. SPEED (RPM) |
|---|---|---|---|---|---|---|
| 1 | FP180000003 | JUW 180 - 33 - 8B - 49 - L - Q Z X 3 X 5 - P - M R | 16.45 | 24.73 | 340 | 740 |


## A GREENER TRANSITION

Central to our mission and strategy is a concern for environmental impact - of our business, products, and their applications.

## EFFICIENT & DURABLE FANS

Designed to reduce energy consumption, lowering costs and $CO_2$ emissions.

## LEGISLATION COMPLIANCE

Exceeding ESPR and DOJ standards for peace of mind.

## LIFETIME MAXIMATION

Fans are repairable and serviceable, making them last longer, decreasing raw material use.

## DRIVE REPLACEABILITY

Design for proper recycling of electronics at end of life.

## SCIENCE-BASED TARGETS

Approved with a market leading net zero goals aligned with the Paris treaty.

## UN GLOBAL COMPACT

Active membership of the world's #1 corporate sustainability initiative.

## RECYCLED MATERIALS

>90% recycled aluminum from our main source.

## GLOBAL PROXIMITY

Minimizing shipment of components and offering returnable packaging.

## OUR DEDICATED ESG TEAM

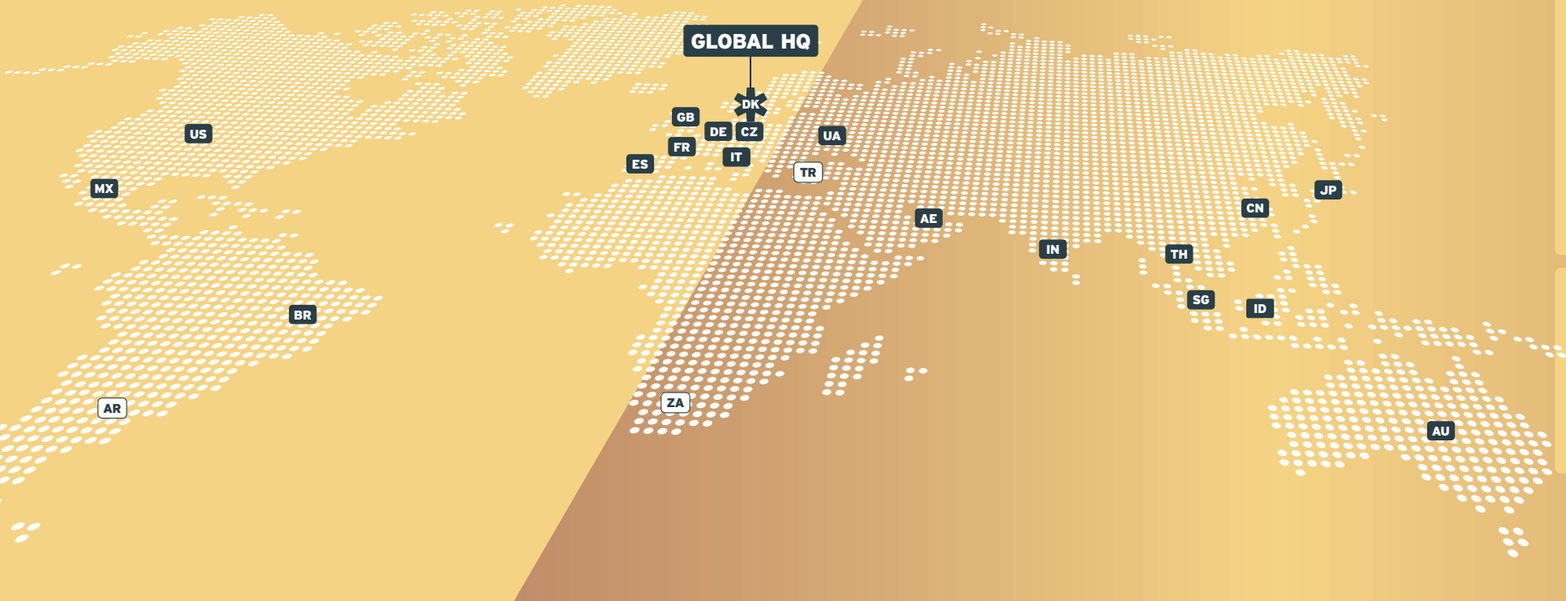
Ready to help you achieve your sustainability goals.

# OUR COMMITMENT TO SUSTAINABILITY

# GLOBAL REACH, LOCAL PRESENCE

Fast and relevant support.
Anywhere in the world.

Our global team of Multi-Wing engineers and technicians is like a well-oiled machine, working together to keep things running smoothly. Our major hubs and local entities act as one team with only one purpose: Giving you the best experience.




# WHERE ARE YOU FROM?

No matter where, we look forward to serving you.

### GLOBAL HEADQUARTERS

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2950 Vedbæk (Copenhagen), Denmark

+45 4589 0133
info@multi-wing.com

### EUROPE

**Czechia** • Nový Bydžov (Hradec Králové)
**France** • Gien (Orléans)
**Germany** • Quickborn (Hamburg)
**Italy** • Settimo Milanese (Milan)
**Spain** • La Roca del Vallès (Barcelona)
**Ukraine** • Horodok (Lviv)
**United Kingdom** • Thurmaston (Leicester)

### NORTH AMERICA

**Mexico** • Apodaca (Monterrey)
**USA** • Middlefield (Cleveland), Ohio

### ASIA / PACIFIC

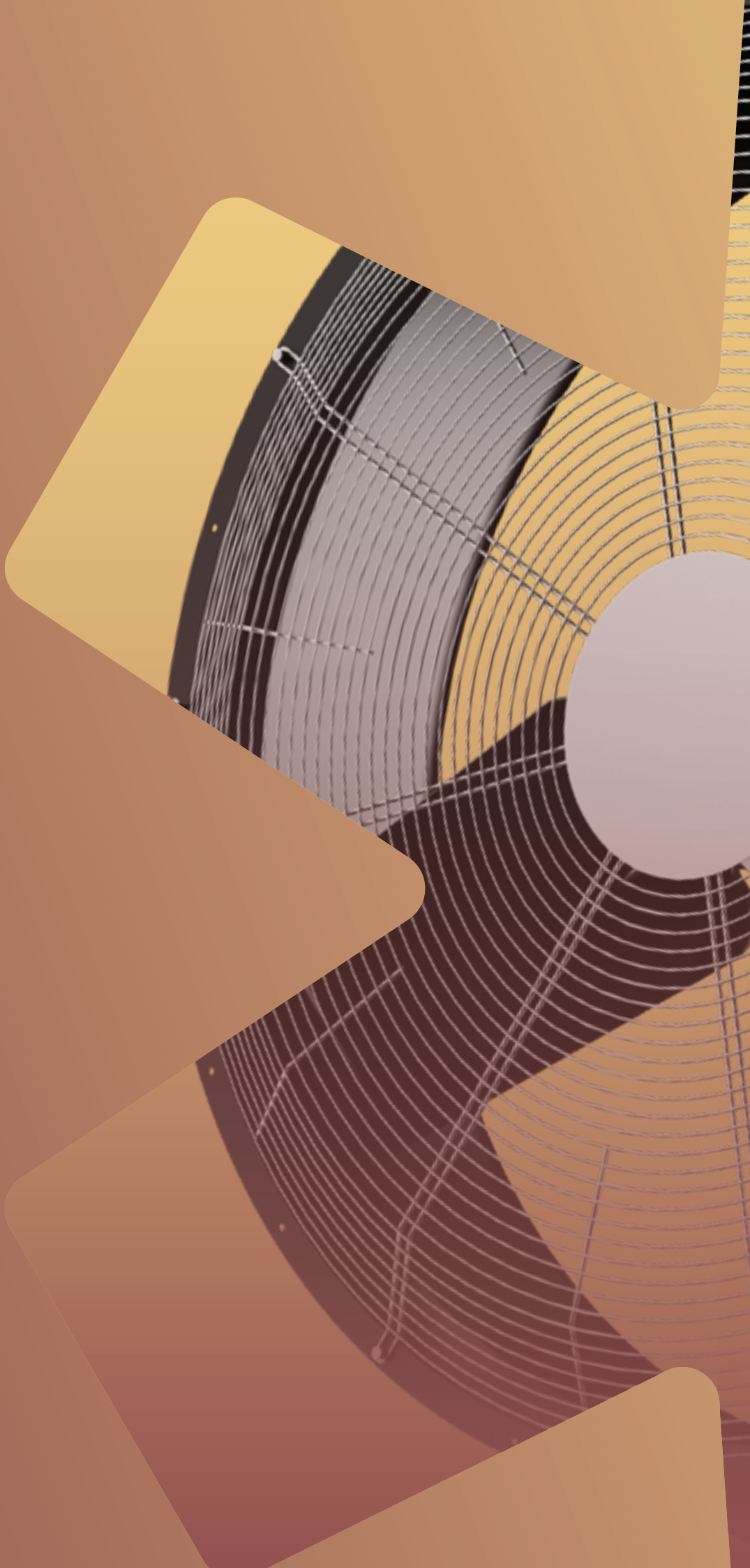
**Australia** • Tullamarine (Melbourne)
**China** • Suzhou
**India** • Pune
**Indonesia** • Bekasi (Jakarta)
**Japan** • Tokyo
**Singapore** • Singapore
**Thailand** • Samut Prakan (Bangkok)

### MIDDLE EAST / AFRICA

**South Africa** • Rispark (Johannesburg)
**Türkiye** • Nilüfer (Bursa)
**United Arab Emirates** • Dubai

### SOUTH AMERICA

**Argentina** • Buenos Aires
**Brazil** • Pomerode, Santa Catarina



## GET IN TOUCH

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